



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 5  
77 WEST JACKSON BOULEVARD  
CHICAGO, IL 60604-3590

**Date:** July 7, 1994

REPLY TO THE ATTENTION OF:

**Subject:** Consultation Letter for Sauget Area 1: Site G

**To:** Louise Fabinski, ATSDR

**From:** Sam Borries, OSC *Sam Borries*

The purpose of this memo is to request a consultation letter from ATSDR on the enclosed data for the Sauget Area 1 Site G. Also enclosed is a summary of the site background and location maps. It is the intent of the Removal program to assess the need for immediate removal action at the Sauget Area 1: Site G. It is the current belief that capping the landfill will remedy the exposure threat. This will include a small amount of contaminated soil removal from outside of the landfill and placement of this material into the fill area prior to capping.

Additional information that may assist you in your review is as follows:

The Site G landfill is approximately five acres in size and is currently surrounded by a six foot barbed wire chain link fence. The site is partially uncovered with waste product material exposed in deteriorated drums and on the ground surface (see attached data for contaminate concentration levels). According to the Sauget Fire Department the landfill has reportedly experienced spontaneous combustion and burned four or five times since early April 1994. Private residential property is located along a portion of the fenced landfill.

Air samples were collected on the landfill and surrounding area. Results of air monitoring using summa canisters and gilliam pumps can be found in the attached data. Air sample AS-1 was collected directly on the landfill near a smoldering hot spot. Samples AS-2 through AS-4 were collected on the perimeter fence line and air sample AS-5 was collected in a residential area approximately 1/4 mile from the site. Air sample AS-6 was collected as a background sample.

Soil samples 101-105 were collected within the fence area of the landfill while samples 106-109 were collected outside the fence area.

If you have any questions or need further information please do not hesitate to contact me at 312/ 353-2886.

Attachments 1-4

## 1.0 INTRODUCTION

The Ecology and Environment, Inc. (E & E) Technical Assistance Team (TAT) was tasked by the United States Environmental Protection Agency (U.S. EPA) under Technical Directive Document (TDD) number T05-9405-006 to conduct a site assessment (SA) for the Sauget Area 1: Site G, St. Clair County, Illinois. As requested by the U.S. EPA On-Scene Coordinator (OSC), the TAT has prepared this site assessment report to summarize SA activities. The SA was performed in accordance with the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), and 40 Code of Federal Regulations (CFR), Section 300.415, Paragraph (b) (2) to evaluate on-site conditions and potential threats to human health and the environment.

## 2.0 SITE BACKGROUND

### 2.1 Site Description

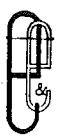
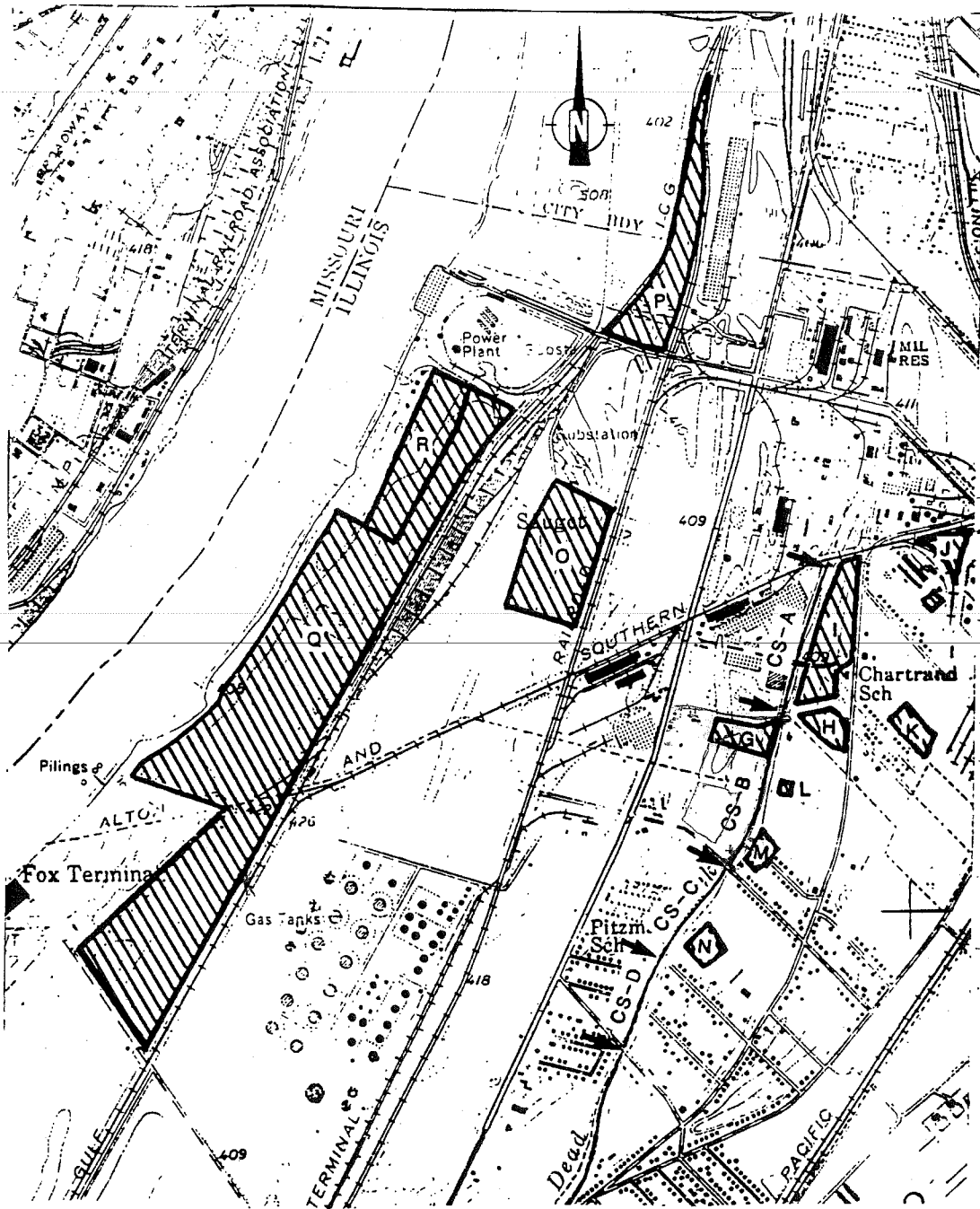
Site Background

The focus of this SA report will be Site G of Sauget Area 1, which, along with Sauget Area 2, is part of the Dead Creek Project (DCP), or Sauget Sites (SS). The Sauget Sites are located in west-central St. Clair County, Illinois, directly across the Mississippi River from St. Louis, Missouri (see Figure 1 - Site Location Map). The DCP sites consist of a number of former municipal and industrial waste landfills; surface impoundments or lagoons; surface disposal areas; past excavations thought to be filled or partially filled with unknown wastes; and an areal drainage flowpath known as Dead Creek, which is closed off from surface water intake at Queeny Avenue.

According to site file information, Site G is a former subsurface/surface disposal area which occupies approximately 4.5 acres. The site is located in Sauget, and is bordered by Queeny Avenue on the north; Dead Creek on the east; a cultivated field on the south; and Wiese Engineering Company property on the west (see Figure 2 - Site Features Map). Waste disposal activity occurred between 1950 and 1985.

The primary drinking water source for nearby residences is from a water intake along the Mississippi River, approximately 3 miles north of the DCP sites. At least 50 residents in the area obtain drinking water from private wells, based on Illinois Department of Public Health (IDPH) information. The nearest drinking water well is located on Judith Lane, approximately 1/4 mile south and downgradient of Site G. Over 20 industrial wells are located within a 3-mile radius, some downgradient from the site.

The land surrounding the site is used for a number of purposes. Industrial, commercial, and municipal buildings are nearby, as is a residential area. The field south of the site is used for farming.

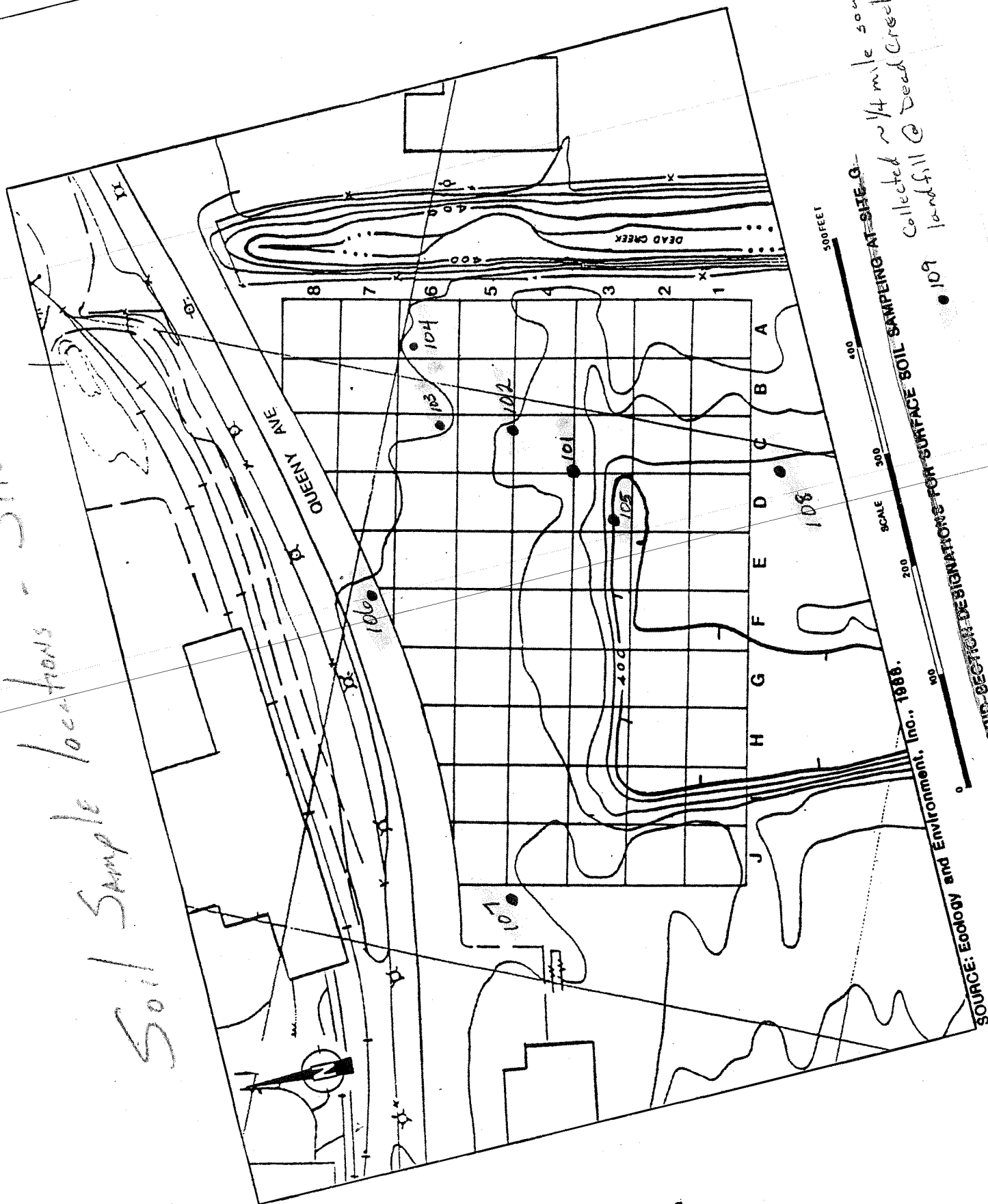


**ecology and environment, inc.**  
 Technical Assistance Team  
 Region V  
 111 West Jackson Blvd.  
 Chicago, IL 60604

|                                       |                          |                            |
|---------------------------------------|--------------------------|----------------------------|
| TITLE<br><b>SITE LOCATION MAP</b>     |                          | FIGURE #<br><b>1</b>       |
| SITE<br><b>SAUGET AREA 1 - SITE G</b> |                          | SCALE<br><b>1" = 2000'</b> |
| CITY<br><b>SAUGET</b>                 | STATE<br><b>ILLINOIS</b> | PAN<br><b>EIL0836SAA</b>   |

Soil Sample locations - Site G

A Hatchment #3



Collected ~1/4 mile south of Judith have  
Dead Creek  
landfill @ 109

FIGURE 3-8 GRID-SECTION DESIGNATIONS FOR SURFACE SOIL SAMPLING AT SITE G

# Air Sample Locations

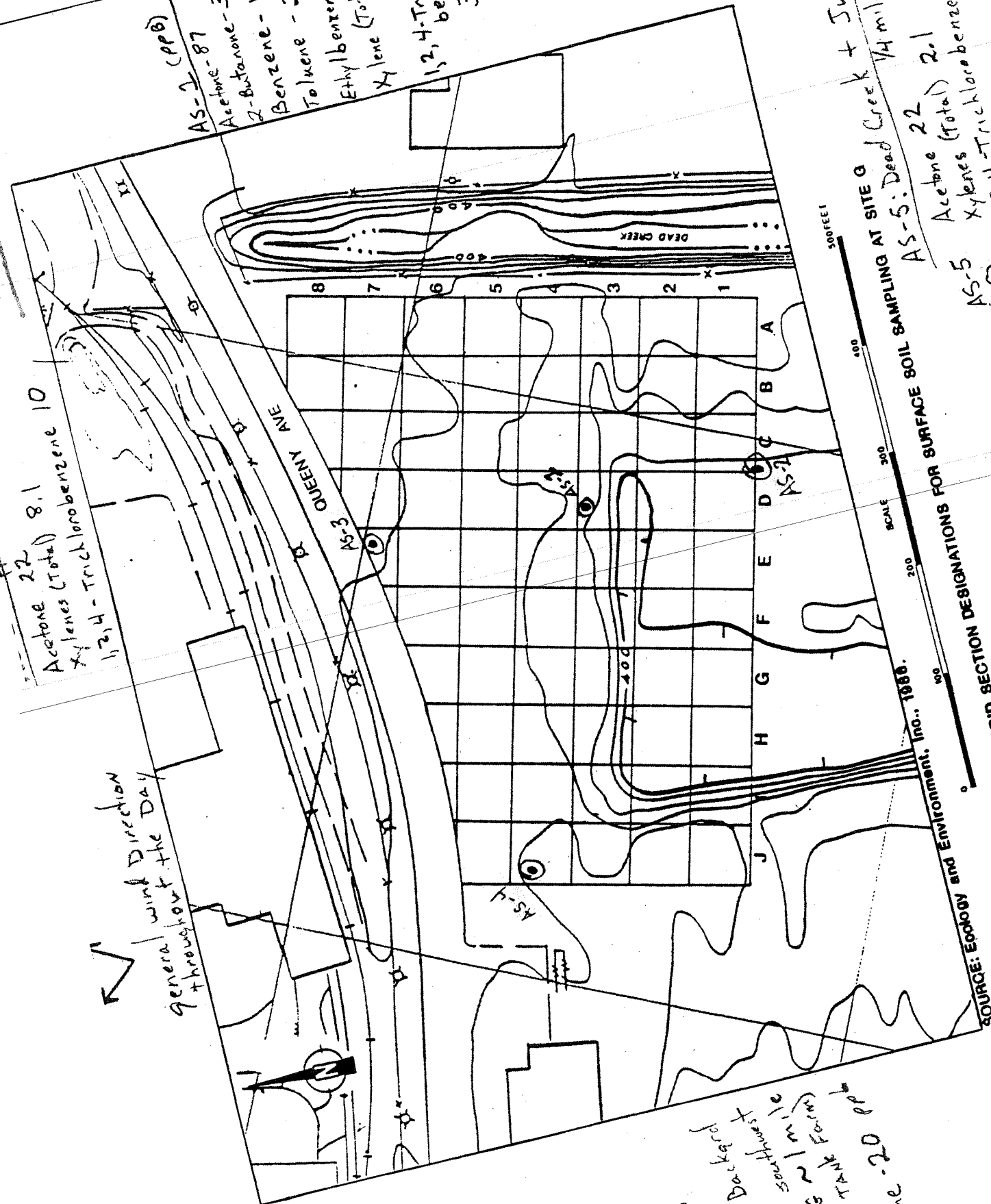
Acetone 22  
Xylenes (Total) 8.1  
1,2,4-Trichlorobenzene 10

general wind direction throughout the day

AS-4: (ppb)  
Acetone 12

AS-1 (ppb)  
Acetone - 87  
2-Butanone - 36  
Benzene - 13  
Toluene - 2.1  
Ethylbenzene - 3  
Xylene (Total) - 14  
1,2,4-Trichlorobenzene 35

Attachment # 4



AS-5  
Acetone 22  
Xylenes (Total) 2.1  
1,2,4-Trichlorobenzene 4.3

AS-2: (ppb)  
Acetone - 13

3-17

AS-6: (ppb)  
Acetone 20  
Xylenes (Total) 2.1  
1,2,4-Trichlorobenzene 4.3

SOURCE: Ecology and Environment, Inc., 1988.